MOTORS and MOTORING



AND SOLD AS NEW PRODUCT GRADE CROSSINGS **IUNKED BATTERIES SALVAGED**

Investigators Find Car Owners May in Some Instances Buy Back Their Own Discarded Equipment.

ing but boxes containing the relics of junked batteries, are being marketed to the unsuspecting public, according to investigators who have been probing the situation for the makers of

standard batteries. upon the skeletons of dead batteries.

It is waged under numerous names and prices. The practice has grown so widespread, and well organized, that a car owner very easily may buy back his own discarded battery in whole or part, nicely housed in a newly painted box with a name on it as new as the paint.

The operation consists of buying and proper service.

In these days of low prices for standard batteries, it is a foregone conclusion that where you buy a battery five or six dollars less than the standard price you are pretty likely to be buying a battery that is not a new battery but a battery made up of odds and ends of old batteries that have been junked.

As the plates are the backbox the battery and the battery had been junked. A thriving business, these investi-

Discarded batteries, of course, are sold entirely as junk and at junk prices. The batteries are torn down old parts given a surface semblance of newness. An investment n a few new plates and electrolyte rives the operator his complete manifacturing expenditure. All that remains is to assemble the junk with a few "live" plates and sell it to an unsuspecting shopper.

With prices for standard batteries down to bedrock, and bogus batteries so widespread, it behooves the car time, there may be a considerable down to be a considerable with the concerned to the content of the content of the car time, there may be a considerable down with the content of the car time, there may be a considerable with the content of the car time, there may be a considerable with the content of the car time.

opportunities to victimize the

MOTOR CYCLE

NEWS

Maj. Lynn G. Adams, superintendent of the Pennsylvania state police, who use seventy motor cycles as part of their equipment, has just submitted

of their equipment, has just submitted an interesting report of the activities of the force during the first nine months of 1921.

During this time 9,761 arrests were made. Of this number, 2,756 were made among automobile law violators. Fifty-eight were charged with murder; 89 with arson; 763 with pobbery, burglary and larceny, while

Batteries looking spick and span market. So far as the purchaser is concerned, his eyesight and such precautions as he can take of his own stop with the box, and a new coat of paint can even make an old box look new, and a new-looking box may house a better yes debilitated so may house a battery so debilitated, so worn out, so much of an invalid, that it hardly has enough strength left to turn over an engine, let alone

back his own discarded battery in whole or part, nicely housed in a newly painted box with a name on it as new as the paint.

The operation consists of buying up all old batteries, sold as junk, and salvaging such parts of them as show any bit of life, particularly the plates, and assembling the salvaged parts with a few plates to give the affair a few days of power, enough to give it a start on its victim. After the few days or weeks he buyer is out his purchase price.

Now an Organized Craft.

The scheme, of course, is not new in the automotive business. It has been worked with variations with tires. It has been worked with variations of the success of the pioneers, combined with the period of high prices, which gave the practice better opportunity to operate, and his wares a better appeal to the car owner, fostered the system. It now represents a genuine menace to the automobilist buying a battery represents new material, in many instances not 5 per cent of the battery type and really what constitute the battery tisted, is is, of course, in the plates that the interiority of about the plates, but it proves any bit of life, particularly the plates, and the battery way render service for a week or a month or more, depaired way of power, enough to give it a start on its victim. After the few days or weeks he buyer is out his purchase price.

Now an Organized Craft.

The scheme, of course, is not new in the automotive business. It has been worked with variations with iters. It has been worked a number of years with batteries in an unorganized way, and not serious fashion. The sudcess of the pioneers, combined with the period of high prices, which gave the practice better opportunity to operate, and his wares a better appeal to the car owner, fostered the system. It now represents a genuine for shoes or a second-hand hand pair of shoes

Investigators "batteries say these "salvaged" batteries say in many instances not 5 per cent of the battery represents new material. In view of this fact, it is easy for practically any one with mechanical expertness to put out these reassembled batteries, and sell them with profit at almost any figure.

Nothing But Junk.

Nothing But Junk.

Cost at Any Price.

That you should pay fifteen or twenty dollars for this kind of bat-tery is exactly the same as buying the corpse of a horse that has been

tery. There is nothing that can guarantee to you the condition, the

The opportunities to victimize the stored-up power, the value of what is urchaser of a battery are more within the box of a battery, except umerous and more easily put over the name on the outside of it.

1,550,000 CARS SOLD.

Auto Production in 1921 Amounted to Total of 1,700,000.

ing homeward, came upon his prize.

mary market demand. Translated into tires, this offers a cheerful outlook says the Miller Rubber Company. Akron, Ohio, for a general upward trend of the business.

5.325 were charged with other offenses against the law.

5.326 were charged with other offenses against the law.

Stolen property valued at \$463,730 was recovered, of which \$315,758.75 represents the value of automobiles recovered. September broke the record for stolen property recovered. The notion property was recovered. The nine months was \$30,235.45, while live stock valued at \$33,241 was recovered. Stolen goods recovered during the first nine months of 1921 is of greater value than that recovered during the entire year of 1920.

In patrolling their districts the state troopers covered 1,159,995 miles. The motor cycle corps made much of this mileage in patrolling roads against automobile-traffic violators. First offenders were not arrested.

Big Tire Production.

Ten rubber companies made 75 per cent of the nineteen million tires turned out in 1921, according to the Miller Rubber Company Akron Otto. He was hurrying along at about thirty-five miles per hour, and leaving an Indiandust cloud whirling up from the rear tire like a cyclone, when the panther, an unusually large one, suddenly loomed up before him in the roadway. Since a panther skin is always worth trying for, Millet managed to bring his machine to a standstill within twenty yards of the beast, to unwrap his rifle, and to walk back several yards, all within a few moments. The panther was still lying in the same place as when he had passed, watching Millet with great interest. It took Millet just a second to put a bullet through him next door to his heart. The enraged animal left the ground with a bound, came down, and staggered off into the jungle, roared, and then all was still. After he was tracked and found dead, his captor found it necessary to get the help of two natives before he could drag him out to the road. Fortunately for him, the motor cycle bore the load after that, the large animal being tled to the carrier, his head and paws and tail being tled up so that they would not drag on either side.

An old 1912 model American-made He was hurrying along at about thir-

Ten rubber companies made 75 per cent of the nineteen million tires turned out in 1921, according to the Miller Rubber Company, Akron, Ohio.

An old 1912 model American-made motor cycle, which recently won first prize in the Swedish newspapers. Afton Bladets economy competition, one of the most important motor cycle events of the year in that country, is causing quite a sensation among motor cyclists of Sweden. The machine is of the single-cylinder belt-drive variety, and has been ridden for nine years; yet despite this long service is still in Al condition. Originally it was purchased in Chicago by S. S. Windrow, who received seven years faithful service from it. It was then sold to its present owner and winner of the economy test, Helge Warner of Stockholm, Sweden, who took it apart piece by piece, and then reassembled it. finding that there was not a sign of wear in any one part of the machine. He later decided to make it a chain-drive machine with footboard and kick starter. He was very successful in making the change, and the old machine has caused quite a bit of surprise on the streets of Stockholm, because of its quick get-away and its apparent power.

In the economy test, this machine went 45,665 meters on one liter of gasoline, which is approximately 114 miles on an American gallon. The next nearest competitor went 44,500 meters, 1,165 meters less, and the third prize winner went 40,643 meters on the same amount of gas.

Maj. Lynn G. Adams, superintendent

PUT UNDER BAN

Bridges and Underpasses Are to Replace Them on Federal Highways.

Grade crossings must go and they Every effort will be made to make the roads of the secondary system recoggnized that elimination may not be practicable in all cases at this

increase the cost of construction. State officials, realizing the need of eliminating grade crossings, have stated their desire to co-operate with the department in carrying out this

Where crossings are unavoidable or where local interests justify conrailroads bear one-half of the cost of building the bridge or underpass.

The prime object of the department's policy to eliminate grade grossings on federal aid roads is the saving of human lives. This policy probably will involve increased expense of construction in the case of some roads, but it is believed this is justified by the saving of life. During the three years ending 1920, according to the best records available to the department, 3,636 lives were lost at grade crossings in the United States and 10,644 persons

University of Alberta ProfesIt seems that in the middle ages there were bands of marauders who had their own methods of exacting toll sor Discovers New Mixture

to Total of 1,700,000.

Automobile production by American companies for 1921 amounted to 1,700,000 cars, of which 1,550,000 were sold in the United States and the resold in the United States and the remainder in Europe. Although in point of size, this output ranks below 1917, 1919 and 1920, whose volumes were 1,868,947, 1,974,916 and 2,205,195, respectively. Yet it was not below the expected normal increase.

It represents production curtailed only from the flood stage of the post-turers have not yet found it necessary to cut down activities below what might be considered the customary market demand. Translated into tires, this offers a cheerful outlook says the Miller Rubber Company. Akron, Ohio, for a general upward trend of the business.

Total of 1,700,000.

Automoblie production by American companies for 1921 amounted to remaind were below the remainder in Europe. Although in point of size, this output ranks below 1917, 1919 and 1920, whose volumes were discovered an ether mixture which solves the problem of starting motor engines in intensely cold weather.

Opportunity for a final test of the post-turers have not yet found it necessary to cut down activities below what might be considered the customary market demand. Translated into tires, this offers a cheerful outlook says the Miller Rubber Company. Akron, Ohio, for a general upward the problem of starting motor engin

Akron Tire Center.

Colorado has the highest broadgauge railroad and the highest skyline auto drive in the United States,
at an altitude approximating 12,000
feet.

More than 75 per cent of all the
automobile and truck tires made in
the United States during 1921 were
manufactured in Akron, according to
the Miller Rubber Company, Akron
Ohio.

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ORIGIN AND MEANING OF TERMS FOUND IN AUTO LITERATURE

Many Words Coined by French Borrowed Because of Convenience—Definition of "Names."

BY ALBERT N. ATKINSON. (Copyright, 1922, by Albert N. Atkinson.)
Although the first automobiles thought reasonable they had a play vere made in this country, the ful way of warming the rench took the lead in the new inrench took the lead in the new inas the ones most suitable.

Origin of "Chauffeur." boiler is called a "chauffeur" in French. There is a curious survival here which is difficult to explain. The early cars were steamers and required

from frequenters of the highways. If dustry because they had imagination, capital, skilled mechanics and some of the best roads in the world. Progress was delayed in England by from the lowly chauffeur of the mid-adverse legislation and in the United adverse legislation and in the United die ages to the lordly autocrat of the States by poor roads over which the modern automobile. Be that as i

> means a "frame." but is now taken to mean the mechanical parts of the car

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34x41/2

33x41/2

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The Washington Cadillac Company 1138-1140 Connecticut Avenue Tel. Frank. 3900-3901 **RUN OVER SNOW AND ICE**

tain ladies of France—the inhabitants of the region around the city of Limoges, which was the capital of the old province of Limousin. A woman of this region would be called a Limousine. The ladies thereabouts—the peasant ladies, be it understood—wear a sort of coif or hood, with a cape attached. This has come to be known as a limousine, because the ladies of Limoges—the peasant ladies—wear it. The French have a sort of covered cart, much like a prairie schooner, which was named a limousine because it was covered with a hood, and when the closed winter body of the automothese contracts. 15 Minutes in Dash From Pitts-

Three hundred and sixty-nine miles over winter roads covered with snow and ice, from Pittsburgh, Pa., to the Mercer factory at Trenton, N. J., in nine hours and fifteen minutes is the record established last week by W. A. Smith, sales manager of Mercer Motors, and Walter Haines, head of the experimental department. The two tourists were checked out

of the William Penn Hotel, Pitts-

that some of the words were not real-

ver, was a pure affectation, much as he word "hangar," applied to the

telling what disasters might be pre

QUERIES AND ANSWERS.

Information on Problems Which Bother Auto Owners.

urgh, and checked in at the Stacyit? It sounds very much like "onggar," and not as it is usually pronounced, like the English word "hangar," However, few of the words we ig
get from the French would be recognized at home, the words elite and
limousine being notable exceptions. B
But the French have just as much
trouble domesticating the many English words they have adopted, so the
odds are even. As long as this is so
there is no danger of ending the
Franco-American entente cordial. But
if both nations, when borrowing each
other's words, were required to learn
the pronunciation also, there is no
telling what disasters might be pre-

them. I have been told to use heavy grease, but do not know if it is advisable or not.

P. R. W. Answer-A medium grade of greas may be used satisfactorily, provided the case is tight. The only danger is where there is an opening between the timing gear case and the crank case. The grease would work through into the oil base and have a tendency to form carbon in the cylinders.

Do the different prices of gasoline along the road indicate a difference in the quality? Some of it seems to The timing gears on my car are have more pep than others. I tested very noisy and I am unable to quiet some and it measured 60 degrees;

devices to take care of this low-grade fuel. Undoubtedly the grades do vary from different dealers, but each one sells it at a price which he chooses. Possibly the difference in power you noticed came from better carburetor adjustment or more perfect heating of the incoming air.

To the Automobile Editor:

There is a slight bumping in my right rear wheel that feels as if the tire were flat, although it is fully in-flated. Is anything wrong with the Answer-The axle may be slightly will be noisy if not properly rep

Answer—If you do not care to cut them you may file a slot in the head for a screwdriver or file two flat places on opposite sides, so that the head may be held by a wrench. Gas places or a prick nunch will not dam.

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